

1600

RAW SEQUENCE LISTING

DATE: 02/12/2003 RECEIVED

PATENT APPLICATION: US/09/612,314A

Input Set : A:\37945004.app

FEB 1 9 2003

Output Set: N:\CRF4\02112003\I612314A.raw

TECH CENTER 1600/2900

```
3 <110> APPLICANT: SMITH, RICHARD ANTHONY GODWIN
        DODD, IAN
        MOSSAKOWSKA, DANUTA EWA IRENA
 5
7 <120> TITLE OF INVENTION: CONJUGATES OF SOLUBLE PEPTIDIC COMPOUNDS WITH
       MEMBRANE-BINDING AGENTS
10 <130> FILE REFERENCE: 37945-0004
12 <140> CURRENT APPLICATION NUMBER: US 09/612,314A
13 <141> CURRENT FILING DATE: 2000-07-07
15 <150> PRIOR APPLICATION NUMBER: US 09/214,913
16 <151> PRIOR FILING DATE: 1999-03-16
18 <150> PRIOR APPLICATION NUMBER: PCT/EP97/03715
                                                            ENTERED
19 <151> PRIOR FILING DATE: 1997-07-08
21 <150> PRIOR APPLICATION NUMBER: GB 96 148 71.3
22 <151> PRIOR FILING DATE: 1996-07-15
24 <160> NUMBER OF SEQ ID NOS: 53
26 <170> SOFTWARE: PatentIn Ver. 2.1
28 <210> SEQ ID NO: 1
29 <211> LENGTH: 37
30 <212> TYPE: DNA
31 <213> ORGANISM: Artificial Sequence
33 <220> FEATURE:
34 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
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37 <400> SEQUENCE: 1
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41 <210> SEQ ID NO: 2
42 <211> LENGTH: 37
43 <212> TYPE: DNA
44 <213> ORGANISM: Artificial Sequence
46 <220> FEATURE:
47 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
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54 <210> SEQ ID NO: 3
55 <211> LENGTH: 85
56 <212> TYPE: DNA
57 <213> ORGANISM: Artificial Sequence
59 <220> FEATURE:
60 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
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63 <400> SEQUENCE: 3
64 gcaccgcagt gcatcatccc gaacaaagac ggtccgaaaa agaagaaaaa gaaatctccg 60
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DATE: 02/12/2003 PATENT APPLICATION: US/09/612,314A TIME: 10:33:01

Input Set : A:\37945004.app

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65 tccaaatctt ccggttgcta ataaa
68 <210> SEQ ID NO: 4
69 <211> LENGTH: 85
70 <212> TYPE: DNA
71 <213> ORGANISM: Artificial Sequence
73 <220> FEATURE:
74 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
         oligonucleotide
77 <400> SEQUENCE: 4
78 agcttttatt agcaaccgga agatttggac ggagatttct ttttcttctt tttcggaccg 60
79 tetttgtteg ggatgatgea etgeg
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83 <211> LENGTH: 17
84 <212> TYPE: PRT
85 <213> ORGANISM: Artificial Sequence
87 <220> FEATURE:
88 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic peptide used
        to synthesize MSWP-1
91 <220> FEATURE:
92 <223> OTHER INFORMATION: c-term amidation
94 <400> SEOUENCE: 5
95 Gly Ser Ser Lys Ser Pro Ser Lys Lys Lys Lys Lys Pro Gly Asp
96
   1
98 Cys
101 <210> SEQ ID NO: 6
102 <211> LENGTH: 198
103 <212> TYPE: PRT
104 <213> ORGANISM: Artificial Sequence
106 <220> FEATURE:
107 <223> OTHER INFORMATION: Description of Artificial Sequence: [SCR1-3]-Cys protein
109 <400> SEQUENCE: 6
110 Met Gln Cys Asn Ala Pro Glu Trp Leu Pro Phe Ala Arg Pro Thr Asn
111
     1
113 Leu Thr Asp Glu Phe Glu Phe Pro Ile Gly Thr Tyr Leu Asn Tyr Glu
114
                 20
116 Cys Arg Pro Gly Tyr Ser Gly Arg Pro Phe Ser Ile Ile Cys Leu Lys
119 Asn Ser Val Trp Thr Gly Ala Lys Asp Arg Cys Arg Arg Lys Ser Cys
122 Arg Asn Pro Pro Asp Pro Val Asn Gly Met Val His Val Ile Lys Gly
123
                         -70
125 Ile Gln Phe Gly Ser Gln Ile Lys Tyr Ser Cys Thr Lys Gly Tyr Arg
126
128 Leu Ile Gly Ser Ser Ser Ala Thr Cys Ile Ile Ser Gly Asp Thr Val
129
                100
                                    105
131 Ile Trp Asp Asn Glu Thr Pro Ile Cys Asp Arg Ile Pro Cys Gly Leu
132
           115
                                120
                                                    125
134 Pro Pro Thr Ile Thr Asn Gly Asp Phe Ile Ser Thr Asn Arg Glu Asn
135
       130
                            135
                                                140
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137 Phe His Tyr Gly Ser Val Val Thr Tyr Arg Cys Asn Pro Gly Ser Gly
                        150
138 145
140 Gly Arg Lys Val Phe Glu Leu Val Gly Glu Pro Ser Ile Tyr Cys Thr
                    165
                                        170
                                                             175
143 Ser Asn Asp Asp Gln Val Gly Ile Trp Ser Gly Pro Ala Pro Gln Cys
                                    185
               180
146 Ile Ile Pro Asn Lys Cys
147
           195
150 <210> SEQ ID NO: 7
151 <211> LENGTH: 214
152 <212> TYPE: PRT
153 <213> ORGANISM: Artificial Sequence
155 <220> FEATURE:
156 <223> OTHER INFORMATION: Description of Artificial Sequence: [SCR1-3]/switch fusion
          protein
157
159 <400> SEQUENCE: 7
160 Met Gln Cys Asn Ala Pro Glu Trp Leu Pro Phe Ala Arg Pro Thr Asn
                                         10
163 Leu Thr Asp Glu Phe Glu Phe Pro Ile Gly Thr Tyr Leu Asn Tyr Glu
                 20
                                     25
166 Cys Arg Pro Gly Tyr Ser Gly Arg Pro Phe Ser Ile Ile Cys Leu Lys
169 Asn Ser Val Trp Thr Gly Ala Lys Asp Arg Cys Arg Arg Lys Ser Cys
                             55
170
172 Arg Asn Pro Pro Asp Pro Val Asn Gly Met Val His Val Ile Lys Gly
173
   65
175 Ile Gln Phe Gly Ser Gln Ile Lys Tyr Ser Cys Thr Lys Gly Tyr Arg
176
178 Leu Ile Gly Ser Ser Ser Ala Thr Cys Ile Ile Ser Gly Asp Thr Val
179
                100
181 Ile Trp Asp Asn Glu Thr Pro Ile Cys Asp Arg Ile Pro Cys Gly Leu
182
                                120
                                                     125
            115
184 Pro Pro Thr Ile Thr Asn Gly Asp Phe Ile Ser Thr Asn Arg Glu Asn
185
        130
                                                 140
                            135
187 Phe His Tyr Gly Ser Val Val Thr Tyr Arg Cys Asn Pro Gly Ser Gly
                        150
                                            155
190 Gly Arg Lys Val Phe Glu Leu Val Gly Glu Pro Ser Ile Tyr Cys Thr
                    165
                                        170
193 Ser Asn Asp Asp Gln Val Gly Ile Trp Ser Gly Pro Ala Pro Gln Cys
                                    185
                                                         190
                180
196 Ile Ile Pro Asn Lys Asp Gly Pro Lys Lys Lys Lys Lys Ser Pro
                                200
197
            195
199 Ser Lys Ser Ser Gly Cys
200
       210
203 <210> SEQ ID NO: 8
204 <211> LENGTH: 16
205 <212> TYPE: PRT
206 <213> ORGANISM: Artificial Sequence
208 <220> FEATURE:
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Input Set : A:\37945004.app

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         acid sequence
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213 Asp Gly Pro Lys Lys Lys Lys Lys Ser Pro Ser Lys Ser Ser Gly
217 <210> SEQ ID NO: 9
218 <211> LENGTH: 16
219 <212> TYPE: PRT
220 <213> ORGANISM: Artificial Sequence
222 <220> FEATURE:
223 <223> OTHER INFORMATION: Description of Artificial Sequence: Illustrative amino
224
         acid sequence
226 <400> SEQUENCE: 9
227 Gly Ser Ser Lys Ser Pro Ser Lys Lys Lys Lys Lys Pro Gly Asp
231 <210> SEQ ID NO: 10
232 <211> LENGTH: 20
233 <212> TYPE: PRT
234 <213> ORGANISM: Artificial Sequence
236 <220> FEATURE:
237 <223> OTHER INFORMATION: Description of Artificial Sequence: Illustrative amino
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240 <400> SEQUENCE: 10
241 Ser Pro Ser Asn Glu Thr Pro Lys Lys Lys Lys Arg Phe Ser Phe
242 1
                     5
244 Lys Lys Ser Gly
245
                20
248 <210> SEQ ID NO: 11
249 <211> LENGTH: 16
250 <212> TYPE: PRT
251 <213> ORGANISM: Artificial Sequence
253 <220> FEATURE:
254 <223> OTHER INFORMATION: Description of Artificial Sequence: Illustrative amino
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257 <400> SEQUENCE: 11
258 Asp Gly Pro Lys Lys Lys Lys Lys Ser Pro Ser Lys Ser Ser Lys
259
    1
                     5
                                        10
262 <210> SEQ ID NO: 12
263 <211> LENGTH: 14
264 <212> TYPE: PRT
265 <213> ORGANISM: Artificial Sequence
267 <220> FEATURE:
268 <223> OTHER INFORMATION: Description of Artificial Sequence: Illustrative amino
         acid sequence
271 <400> SEQUENCE: 12
272 Ser Lys Asp Gly Lys Lys Lys Lys Lys Ser Lys Thr Lys
273 1
276 <210> SEO ID NO: 13
277 <211> LENGTH: 6
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278 <212> TYPE: PRT
279 <213> ORGANISM: Artificial Sequence
281 <220> FEATURE:
282 <223> OTHER INFORMATION: Description of Artificial Sequence: Illustrative amino
283
          acid sequence
285 <400> SEQUENCE: 13
286 Gly Arg Gly Asp Ser Pro
287
290 <210> SEQ ID NO: 14
291 <211> LENGTH: 209
292 <212> TYPE: PRT
293 <213> ORGANISM: Artificial Sequence
295 <220> FEATURE:
296 <223> OTHER INFORMATION: Description of Artificial Sequence: SCR1-3 with
297
          the c-terminal amino acids N195 and K196 replaced
298
          by a 14 amino acid peptide
300 <400> SEQUENCE: 14
301 Met Gln Cys Asn Ala Pro Glu Trp Leu Pro Phe Ala Arg Pro Thr Asn
302
                                          10
304 Leu Thr Asp Glu Phe Glu Phe Pro Ile Gly Thr Tyr Leu Asn Tyr Glu
                 20
                                      25
307 Cys Arg Pro Gly Tyr Ser Gly Arg Pro Phe Ser Ile Ile Cys Leu Lys
310 Asn Ser Val Trp Thr Gly Ala Lys Asp Arg Cys Arg Arg Lys Ser Cys
313 Arg Asn Pro Pro Asp Pro Val Asn Gly Met Val His Val Ile Lys Gly
     65
316 Ile Gln Phe Gly Ser Gln Ile Lys Tyr Ser Cys Thr Lys Gly Tyr Arg
317
                                          90
319 Leu Ile Gly Ser Ser Ser Ala Thr Cys Ile Ile Ser Gly Asp Thr Val
320
322 Ile Trp Asp Asn Glu Thr Pro Ile Cys Asp Arg Ile Pro Cys Gly Leu
323
            115
                                120
                                                     125
325 Pro Pro Thr Ile Thr Asn Gly Asp Phe Ile Ser Thr Asn Arg Glu Asn
326
        130
                            135
                                                 140
328 Phe His Tyr Gly Ser Val Val Thr Tyr Arg Cys Asn Pro Gly Ser Gly
329 145
                                             155
331 Gly Arg Lys Val Phe Glu Leu Val Gly Glu Pro Ser Ile Tyr Cys Thr
                    165
                                         170
334 Ser Asn Asp Asp Gln Val Gly Ile Trp Ser Gly Pro Ala Pro Gln Cys
335
                180
                                    185
337 Ile Ile Pro Thr Asn Ala Asn Lys Ser Leu Ser Ser Ile Ser Cys Gln
338
            195
                                200
                                                     205
340 Thr
343 <210> SEQ ID NO: 15
344 <211> LENGTH: 53
345 <212> TYPE: DNA
346 <213> ORGANISM: Artificial Sequence
348 <220> FEATURE:
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VERIFICATION SUMMARY

DATE: 02/12/2003

PATENT APPLICATION: US/09/612,314A

TIME: 10:33:02

Input Set : A:\37945004.app